

ABSTRACT OF THE DISCLOSURE

A home agent assigns disjoint ranges of port numbers to mobile nodes that share a global IP address. In response to a registration request message from a mobile node, the home agent transmits to the mobile node its assigned range of port numbers, as an extension to a registration reply message. The home agent maintains data records for the mobile nodes that have registered with it, wherein a data record for a mobile node includes its global IP address, its assigned range of port numbers, and its current address. When the home agent receives data packets destined for one of these registered mobile nodes, as determined from the destination address and destination port number specified in the data packets, the home agent forwards the data packets to the current address listed in the mobile node's data record.

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000